

The marijuana industry and its boosters have been actively advertising marijuana as a solution for the opioid epidemic; they claim that marijuana is an effective substitute for opioids in pain management and have even gone on to say marijuana can be used as a treatment for opioid use disorder.

A deeper look at the scientific literature reveals that those who use marijuana are at much higher risk for developing opioid use disorders and that population studies claiming a correlation between state marijuana legalization and reduced opioid deaths have serious deficiencies. Better studies are now showing marijuana is a risk factor in the increased non-medical use of opioids.

## **“The opioid crisis appears to be worsening where marijuana has been legalized.”**

- JAMA INTERNATIONAL MEDICINE JOURNAL, 2018<sup>1</sup>

### LATEST RESEARCH ON MARIJUANA & OPIOIDS

#### MARIJUANA HAS HAD NO IMPACT ON OPIOID PRESCRIPTIONS OR REDUCED PRESCRIBING.

THE LANCET JOURNAL, 2018<sup>4</sup>

A 4-year prospective study followed medical marijuana patients with a dual opioid prescription and found that marijuana use had no positive impact on opioid use or reduced prescribing.

Further, they found that cannabis users were more likely to rate cannabis as means of effective pain relief; however, other self-reported pain measures indicated the opposite. Users reported greater pain severity and more day-to-day interference than those that did not use marijuana.

#### MARIJUANA USERS ARE MORE LIKELY TO ABUSE PRESCRIPTION OPIOIDS.

THE AMERICAN JOURNAL OF PSYCHIATRY, 2017<sup>5</sup>

Over 30,000 American adults were sampled and researchers found that marijuana users were more than twice as likely to move on to abuse prescription opioids – even when controlling for age, sex, race/ethnicity, other substance use disorders, any mood or anxiety disorder, prior nonmedical opioid use, and family history of drug use disorder, alcohol use disorder, depression, and antisocial personality disorder.

#### MARIJUANA USE CAN DECREASE PAIN THRESHOLDS, REQUIRING MORE MEDICATION.

PATIENT SAFETY IN SURGERY, 2018<sup>6</sup>

Researchers found that patients reporting marijuana use actually experienced *more* pain on average when admitted to the hospital following a traumatic injury than those that did not. Compared to non-users, they required more opioid medication to cope with the pain and consistently rated their pain higher during the duration of their stay.

#### MARIJUANA IS OFTEN USED WITH OTHER SUBSTANCES.

THE AMERICAN JOURNAL OF PSYCHIATRY, 2014<sup>7</sup>

Regular use of marijuana is linked with increased risk of developing cannabis use disorder, higher rates of mental illness and higher rates of co-substance abuse with alcohol, among other drugs.

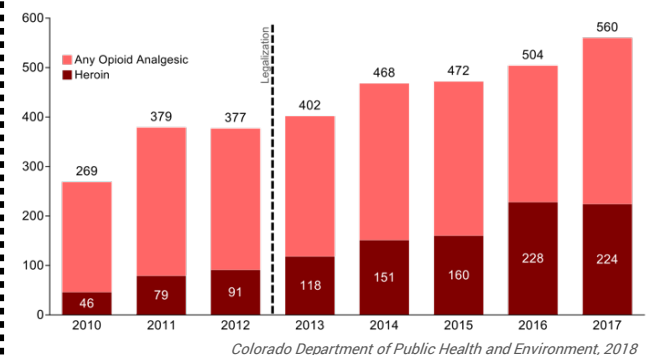
“THERE IS MODERATE EVIDENCE OF A STATISTICAL ASSOCIATION BETWEEN CANNABIS USE AND THE DEVELOPMENT OF SUBSTANCE DEPENDENCE AND/OR A SUBSTANCE ABUSE DISORDER FOR SUBSTANCES INCLUDING ALCOHOL, TOBACCO, AND OTHER ILLICIT DRUGS.”

- NATIONAL ACADEMIES OF SCIENCE (2017)<sup>2</sup>

“[W]E RECOMMEND AVOIDING MEDICAL MARIJUANA CERTIFICATION IN A PATIENT PRESCRIBED HIGH-DOSE OPIOIDS. GIVEN THE DEARTH OF EVIDENCE FOR LONG-TERM OPIOID THERAPY FOR CHRONIC PAIN, ADDING MORE UNCERTAINTY WITH MARIJUANA SEEMS UNWISE.”

- MAYO CLINIC (2016)<sup>3</sup>

### OPIOID OVERDOSE FATALITIES HAVE INCREASED IN COLORADO SINCE LEGALIZATION.<sup>8</sup>



“[P]RESCRIPTION OPIOIDS WERE SEEN AS A WONDER DRUG, ESPECIALLY FOR PAIN MANAGEMENT.”

“WE SHOULD NOT REPEAT HISTORY WITH YET ANOTHER WONDER DRUG INSTALLED BEFORE PROPER EVIDENCE.”

- ADDICTION, 2018<sup>9</sup>

#### REFERENCES

- Bleyer, A., & Barnes, B. (2018). Opioid Death Rate Acceleration in Jurisdictions Legalizing Marijuana Use. *JAMA internal medicine*, 178(9), 1280-1281.
- National Academies of Sciences, Engineering, and Medicine; Health and Medicine Division; Board on Population Health and Public Health Practice; Committee on the Health Effects of Marijuana: An Evidence Review and Research Agenda (2017) (NAS Report).
- Becker, W. C., & Tetraault, J. M. (2017). Medical Marijuana in Patients Prescribed Opioids: A Cloud of Uncertainty. *Journal of Global Drug Policy & Practice*, 11(1).
- Campbell, G., Hall, W. D., Peacock, A., Lintzeris, N., Bruno, R., Larance, B., ... & Blyth, F. (2018). Effect of cannabis use in people with chronic non-cancer pain prescribed opioids: findings from a 4-year prospective cohort study. *The Lancet Public Health*, 3(7), e341-e350.
- Olsson, M., Wall, M. M., Liu, S. M., & Blanco, C. (2017). Cannabis use and risk of prescription opioid use disorder in the United States. *American Journal of Psychiatry*, 174(1), 47-53.
- Salottolo, K., Peck, L., Tanner II, A., Carrick, M. M., Madayag, R., McGuire, E., & Bar-Or, D. (2018). The grass is not always greener: a multi-institutional pilot study of marijuana use and acute pain management following traumatic injury. *Patient Safety in Surgery*, 12(1), 16.
- Hasin, D. S., Kerridge, B. T., Saha, T. D., Huang, B., Pickering, R., Smith, S. M., ... & Grant, B. F. (2016). Prevalence and correlates of DSM-5 cannabis use disorder, 2012-2013: findings from the National Epidemiologic Survey on Alcohol and Related Conditions-III. *American Journal of Psychiatry*, 173(6), 588-599.
- Colorado Department of Public Health and Environment. (n.d.). Vital Statistics Program. Retrieved November 2, 2018, from <https://www.colorado.gov/pacific/cdph/vital-statistics-program>
- Rehm, J. (2018). Commentary on Liang et al (2018): The potential impact of medical cannabis on public health with respect to reducing prescription opioid use and associated harm. *Addiction*.